Worksheet 2: Branching

Name:	

1. Write the name of each operate	or:
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Comparison Operators	Logical Operators
==	. — — — — — — — — — — — — — — — — — — —

2. Given these variables:

```
int score = 10;
int count = 7;
string name = "John";
```

Write the value of these Boolean expressions (write a program if you'd like to see if you are correct):

a.	score >= 7	
b.	count == score - 2	
c.	name != "Sam"	
d.	score - 3 != count	
e.	score > 5 && count > 10	
f.	count >= 5 && count <= 10	
g.	score < 20 count > 5	
h.	score < 5 score > 10	
i.	!(count <= 10) && !(score != 10)	

3. Given the same variables above, write the code necessary to achieve the following:

a. If count is equal to zero then change score to 100.	
b. If score is more than 5 increase count by two.	

c. If score is more than count then decrease both by 2.	
d. If count is between 7 and 15 then decrease score by 5.	
e. If count is equal to 10 or name is equal to "Tom" then double the score. Otherwise, add 10 to the score.	

- 4. Using a random number generator, write the code to:
 - a. Create a random number generator.
 - b. Generate a random number between 1 and 10.